

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-830-AF-(L38)-EM10W-DIM-UNV_ (EMER ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20112.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 06/20/2025

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4' NARROW LOW PROFILE WRAP LED LUMINAIRE

[MORE] WITH FROSTED PRISMATIC ACRYLIC DIFFUSER

[LUMCAT] 17-4-L55-830-AF-(L38)-EM10W-DIM-UNV (EMER ONLY)

[LAMPCAT] HLM 80 CRI, 3000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Manufacturing, Office, Direct

[_SEARCH_MOUNTING] Pendant, Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1401
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.15 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1259	1173	1194
55	1042	997	1042
65	816	809	872
75	612	622	725
85	297	407	575

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	501.936	501.936	501.936	501.936	501.936
5	507.648	501.191	497.217	495.975	495.230
10	499.701	493.243	489.518	488.773	486.538
15	488.028	482.316	478.590	477.845	476.355
20	470.394	464.682	461.205	463.440	460.708
25	447.545	443.571	439.846	443.571	441.088
30	419.480	416.997	414.016	417.990	417.742
35	385.207	386.200	382.226	389.429	390.671
40	344.227	345.966	345.221	354.907	357.887
45	300.267	302.751	308.712	315.666	320.633
50	252.086	255.066	267.732	273.196	279.654
55	204.649	208.374	224.269	233.459	240.909
60	160.441	165.905	183.290	192.728	202.165
65	120.951	128.651	145.539	155.473	162.924
70	87.423	95.370	111.017	122.690	128.154
75	58.613	65.319	80.469	94.625	99.096
80	33.777	40.731	54.391	68.299	72.521
85	11.921	18.627	30.548	46.443	47.437
90	0.000	5.712	16.888	29.307	32.287
95	0.000	5.712	16.392	26.823	30.548
100	0.000	5.961	16.143	25.581	28.561
105	0.000	5.712	15.895	23.843	26.575
110	0.000	6.457	15.398	22.849	25.084
115	0.000	5.961	14.653	21.607	23.843
120	0.000	6.706	13.908	19.869	22.104
125	0.000	5.961	12.666	18.130	20.117
130	0.000	5.712	11.176	15.895	17.882
135	0.000	5.464	10.431	14.157	15.647
140	0.000	5.216	9.189	12.666	14.157
145	0.000	0.000	7.948	11.425	12.418
150	0.000	0.000	7.202	9.189	10.679
155	0.000	0.000	6.457	8.444	7.948
160	0.000	0.000	5.712	6.954	6.954
165	0.000	0.000	0.000	5.464	6.457
170	0.000	0.000	0.000	0.000	5.464
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 17-4-L55-830-AF-(L38)-EM10W-DIM-UNV_ (EMER ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	182.80	N.A.	13.00
0-30	386.68	N.A.	27.60
0-40	627.73	N.A.	44.80
0-60	1065.05	N.A.	76.00
0-80	1292.84	N.A.	92.30
0-90	1329.29	N.A.	94.90
10-90	1281.91	N.A.	91.50
20-40	444.93	N.A.	31.80
20-50	683.05	N.A.	48.80
40-70	579.85	N.A.	41.40
60-80	227.79	N.A.	16.30
70-80	85.25	N.A.	6.10
80-90	36.46	N.A.	2.60
90-110	33.28	N.A.	2.40
90-120	46.75	N.A.	3.30
90-130	57.25	N.A.	4.10
90-150	68.83	N.A.	4.90
90-180	71.74	N.A.	5.10
110-180	38.47	N.A.	2.70
0-180	1401.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.39
10-20	135.42
20-30	203.88
30-40	241.05
40-50	238.12
50-60	199.20
60-70	142.53
70-80	85.25
80-90	36.46
90-100	17.62
100-110	15.65
110-120	13.47
120-130	10.50
130-140	7.36
140-150	4.23
150-160	2.20
160-170	0.68
170-180	0.02

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	108	103	99	95	104	100	96	93	95	92	89	90	88	85	86	84	82	79
2	98	90	83	78	95	88	81	76	83	78	74	79	75	71	75	72	69	67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	70	62	55	79	69	61	55	66	59	53	63	57	52	60	55	51	48
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	42	37	49	41	36	47	40	35	45	39	35	33
8	60	47	39	33	59	46	38	33	45	37	32	43	37	32	41	36	31	29
9	57	43	35	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	32	27	51	39	32	27	38	31	27	37	31	26	36	30	26	24

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	10.7	12.2	11.1	12.6	13.0	12.1	13.6	12.5	14.0	14.4
	3H	12.0	13.3	12.4	13.8	14.2	13.9	15.2	14.3	15.6	16.1
	4H	12.4	13.7	12.9	14.1	14.6	14.6	15.9	15.1	16.4	16.9
	6H	12.6	13.8	13.1	14.3	14.8	15.4	16.5	15.8	17.0	17.5
	8H	12.7	13.8	13.2	14.3	14.8	15.7	16.8	16.2	17.3	17.8
	12H	12.7	13.8	13.2	14.3	14.8	16.0	17.0	16.5	17.5	18.1

UGR Viewed Endwise

4H	2H	11.4	12.6	11.8	13.1	13.6	12.5	13.7	13.0	14.2	14.7
	3H	12.9	13.9	13.4	14.4	15.0	14.5	15.6	15.0	16.1	16.6
	4H	13.4	14.3	13.9	14.9	15.4	15.4	16.4	15.9	16.9	17.4
	6H	13.7	14.6	14.3	15.1	15.7	16.3	17.1	16.8	17.7	18.2
	8H	13.8	14.6	14.4	15.1	15.7	16.7	17.5	17.2	18.0	18.6
	12H	13.9	14.6	14.4	15.1	15.7	17.1	17.8	17.6	18.4	18.9

8H	4H	13.8	14.6	14.3	15.1	15.7	15.6	16.4	16.1	16.9	17.5
	6H	14.2	14.9	14.8	15.5	16.1	16.6	17.3	17.2	17.8	18.4
	8H	14.4	15.0	15.0	15.6	16.2	17.1	17.7	17.7	18.3	18.9
	12H	14.5	15.0	15.0	15.6	16.2	17.6	18.2	18.2	18.7	19.4

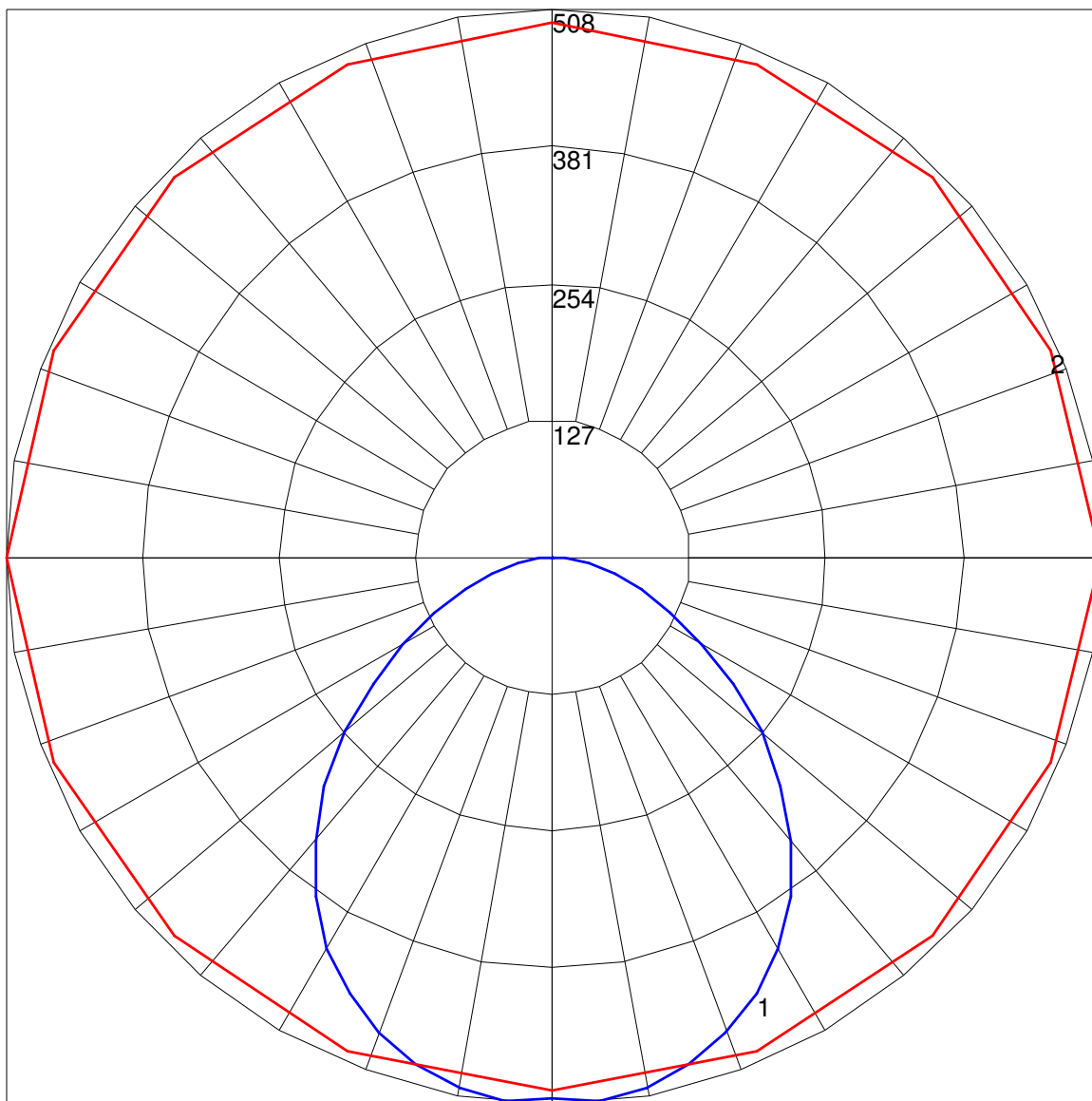
12H	4H	13.9	14.6	14.4	15.1	15.7	15.6	16.3	16.2	16.9	17.5
	6H	14.4	15.0	15.0	15.5	16.2	16.6	17.2	17.2	17.8	18.4
	8H	14.6	15.1	15.1	15.7	16.3	17.2	17.7	17.8	18.3	19.0

Maximum UGR = 19.4

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POLAR GRAPH



Maximum Candela = 507.648 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)